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L1	1	("6,226,408").PN.	USPAT; USOCR	OR	OFF	2007/10/01 04:57
L2	4	(("6,226,408") or ("6,108,004") or ("6,157,935") or ("6,400,996")).PN.	USPAT; USOCR	OR	OFF	2007/10/01 05:29
L3	0	cluster AND "training data" AND historical and distance and index and display and vectors and "perceptible format".clm.	USPAT	OR	OFF	2007/10/01 05:30
L4	0	cluster AND "training data" AND historical and distance and index and display and vectors and "perceptible format".clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/01 05:30

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L2	4	(("6,226,408") or ("6,108,004") or ("6,157,935") or ("6,400,996")).PN.	USPAT; USOCR	OR	OFF	2007/10/01 05:29
L3	0	cluster AND "training data" AND historical and distance and index and display and vectors and "perceptible format".clm.	USPAT	OR	OFF	2007/10/01 05:30
L4	0	cluster AND "training data" AND historical and distance and index and display and vectors and "perceptible format".clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/01 05:30
L5	116	cluster AND "training data" AND historical and distance and index and display	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/01 05:30

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IET CNF	IET Conference Proceeding
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L2	4	(("6,226,408") or ("6,108,004") or ("6,157,935") or ("6,400,996")).PN.	USPAT; USOCR	OR	OFF	2007/10/01 05:29
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L4	0	cluster AND "training data" AND historical and distance and index and display and vectors and "perceptible format".clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/01 05:30
L5	116	cluster AND "training data" AND historical and distance and index and display	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/10/01 05:30

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1 Fast detection of communication patterns in distributed executions   ■
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**
Publisher: IBM Press
Full text available: 📄 pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 Temporal sequence learning and data reduction for anomaly detection   ■
Terran Lane, Carla E. Brodley
August 1999 **ACM Transactions on Information and System Security (TISSEC),** Volume 2 Issue 3
Publisher: ACM Press
Full text available: 📄 pdf(628.31 KB)   Additional Information: full citation, abstract, references, citings, index terms

The anomaly-detection problem can be formulated as one of learning to characterize the behaviors of an individual, system, or network in terms of temporal sequences of discrete data. We present an approach on the basis of instance-based learning (IBL) techniques. To cast the anomaly-detection task in an IBL framework, we employ an approach that transforms temporal sequences of discrete, unordered observations into a metric space via a similarity measure that encodes intra-attribute depende ...

Keywords: anomaly detection, clustering, data reduction, empirical evaluation, instance based learning, machine learning, user profiling

3 Data clustering: a review   ■
A. K. Jain, M. N. Murty, P. J. Flynn
September 1999 **ACM Computing Surveys (CSUR),** Volume 31 Issue 3
Publisher: ACM Press
Full text available: 📄 pdf(636.24 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in

many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

4 Image retrieval, users and usability: A search engine for historical manuscript images ■
Toni M. Rath, R. Manmatha, Victor Lavrenko
July 2004 **Proceedings of the 27th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '04**
Publisher: ACM Press

Full text available: 📄 pdf(346.95 KB)   Additional Information: full citation, abstract, references, citings, index terms

Many museum and library archives are digitizing their large collections of handwritten historical manuscripts to enable public access to them. These collections are only available in image formats and require expensive manual annotation work for access to them. Current handwriting recognizers have word error rates in excess of 50% and therefore cannot be used for such material. We describe two statistical models for retrieval in large collections of handwritten manuscripts given a text query. Bo ...

Keywords: handwriting retrieval, historical manuscripts, relevance models

5 Automatic summarization of music videos ■
Xi Shao, Changsheng Xu, Namunu C. Maddage, Qi Tian, Mohan S. Kankanhalli, Jesse S. Jin
May 2006 **ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP)**, Volume 2 Issue 2
Publisher: ACM Press
Full text available: 📄 pdf(488.75 KB)   Additional Information: full citation, abstract, references, index terms

In this article, we propose a novel approach for automatic music video summarization. The proposed summarization scheme is different from the current methods used for video summarization. The music video is separated into the music track and video track. For the music track, a music summary is created by analyzing the music content using music features, an adaptive clustering algorithm, and music domain knowledge. Then, shots in the video track are detected and clustered. Finally, the music vide ...

Keywords: Music summarization, music video, video summarization

6 Content session 5: image annotation: Real-time computerized annotation of pictures ■
Jia Li, James Z. Wang
October 2006 **Proceedings of the 14th annual ACM international conference on Multimedia MULTIMEDIA '06**
Publisher: ACM Press
Full text available: 📄 pdf(1.59 MB)   Additional Information: full citation, abstract, references, index terms

Automated annotation of digital pictures has been a highly challenging problem for computer scientists since the invention of computers. The capability of annotating pictures by computers can lead to breakthroughs in a wide range of applications including Web image search, online picture-sharing communities, and scientific experiments. In our work, by advancing statistical modeling and optimization techniques, we can train computers about hundreds of semantic concepts using example pictures from ...

Keywords: clustering, image annotation, modeling, statistical learning

7 Research papers: mining biological and medical data: Subsequence matching on structured time series data

Huanmei Wu, Betty Salzberg, Gregory C Sharp, Steve B Jiang, Hiroki Shirato, David Kaeli
June 2005 **Proceedings of the 2005 ACM SIGMOD international conference on Management of data SIGMOD '05**

Publisher: ACM Press

Full text available: 📄 pdf(930.08 KB)   Additional Information: full citation, abstract, references

Subsequence matching in time series databases is a useful technique, with applications in pattern matching, prediction, and rule discovery. Internal structure within the time series data can be used to improve these tasks, and provide important insight into the problem domain. This paper introduces our research effort in using the internal structure of a time series directly in the matching process. This idea is applied to the problem domain of respiratory motion data in cancer radiation treatme ...

8 Three-dimensional object recognition

Paul J. Besl, Ramesh C. Jain
March 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 1

Publisher: ACM Press

Full text available: 📄 pdf(7.76 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

A general-purpose computer vision system must be capable of recognizing three-dimensional (3-D) objects. This paper proposes a precise definition of the 3-D object recognition problem, discusses basic concepts associated with this problem, and reviews the relevant literature. Because range images (or depth maps) are often used as sensor input instead of intensity images, techniques for obtaining, processing, and characterizing range data are also surveyed.

9 Video abstraction: A systematic review and classification

Ba Tu Truong, Svetha Venkatesh
February 2007 **ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP)**, Volume 3 Issue 1

Publisher: ACM Press

Full text available: 📄 pdf(380.77 KB)   Additional Information: full citation, appendices and supplements, abstract, references, index terms

The demand for various multimedia applications is rapidly increasing due to the recent advance in the computing and network infrastructure, together with the widespread use of digital video technology. Among the key elements for the success of these applications is how to effectively and efficiently manage and store a huge amount of audio visual information, while at the same time providing user-friendly access to the stored data. This has fueled a quickly evolving research area known as vide ...

***Keywords**: Video summarization, keyframe, survey, video abstraction, video skimming*

10 Multiple sensor integration for indoor surveillance

Valery A. Petrushin, Gang Wei, Rayid Ghani, Anatole V. Gershman
August 2005 **Proceedings of the 6th international workshop on Multimedia data mining: mining integrated media and complex data MDM '05**

Publisher: ACM Press

Full text available: 📄 pdf(663.64 KB)   Additional Information: full citation, abstract, references, index terms

Multiple Sensor Indoor Surveillance (MSIS) is a research project at Accenture Technology Labs aimed at exploring a variety of redundant sensors in a networked environment where each sensor is giving noisy information and the goal is to coherently reason about some aspect of the environment. We describe the objectives of the project, the problems it was designed to solve and some recent results. The environment includes 32 web cameras, an infrared badge ID system, a PTZ camera, and a fingerprint ...

Keywords: Bayesian inference, indoor surveillance, multi-camera surveillance, people localization, rare event detection, self-organizing maps, unsupervised learning, visualization

11 Inverted files for text search engines

Justin Zobel, Alistair Moffat
July 2006   **ACM Computing Surveys (CSUR)**, Volume 38 Issue 2
Publisher: ACM Press

Full text available: pdf(944.29 KB)   Additional Information: full citation, abstract, references, index terms

The technology underlying text search engines has advanced dramatically in the past decade. The development of a family of new index representations has led to a wide range of innovations in index storage, index construction, and query evaluation. While some of these developments have been consolidated in textbooks, many specific techniques are not widely known or the textbook descriptions are out of date. In this tutorial, we introduce the key techniques in the area, describing both a core impl ...

Keywords: Inverted file indexing, Web search engine, document database, information retrieval, text retrieval

12 Special session 2: multimedia information retrieval: challenges and real-world applications: Content-based image retrieval: approaches and trends of the new age

Ritendra Datta, Jia Li, James Z. Wang
November 2005 **Proceedings of the 7th ACM SIGMM international workshop on Multimedia information retrieval MIR '05**
Publisher: ACM Press

Full text available: pdf(467.64 KB)   Additional Information: full citation, abstract, references, citings, index terms

The last decade has witnessed great interest in research on content-based image retrieval. This has paved the way for a large number of new techniques and systems, and a growing interest in associated fields to support such systems. Likewise, digital imagery has expanded its horizon in many directions, resulting in an explosion in the volume of image data required to be organized. In this paper, we discuss some of the key contributions in the current decade related to image retrieval and automat ...

Keywords: annotation, content-based image retrieval

13 Temporal sequence learning and data reduction for anomaly detection

Terran Lane, Carla E. Brodley
November 1998 **Proceedings of the 5th ACM conference on Computer and communications security CCS '98**
Publisher: ACM Press

Full text available: pdf(1.12 MB)   Additional Information: full citation, references, citings, index terms

14 Industry track papers: ADMIT: anomaly-based data mining for intrusions

Karlton Sequeira, Mohammed Zaki
July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '02**
Publisher: ACM Press

Full text available: pdf(1.33 MB)   Additional Information: full citation, abstract, references, citings, index terms

Security of computer systems is essential to their acceptance and utility. Computer security analysts use intrusion detection systems to assist them in maintaining computer system security. This paper deals with the problem of differentiating between

masqueraders and the true user of a computer terminal. Prior efficient solutions are less suited to real time application, often requiring all training data to be labeled, and do not inherently provide an intuitive idea of what the data model means. ...

15 Large-scale collections: Organizing the OCA: learning faceted subjects from a library of digital books
David Mimno, Andrew McCallum
June 2007 **Proceedings of the 2007 conference on Digital libraries JCDL '07**
Publisher: ACM Press
Full text available: pdf(537.50 KB)   Additional Information: full citation, abstract, references, index terms

Large scale library digitization projects such as the Open Content Alliance are producing vast quantities of text, but little has been done to organize this data. Subject headings inherited from card catalogs are useful but limited, while full-text indexing is most appropriate for readers who already know exactly what they want. Statistical topic models provide a complementary function. These models can identify semantically coherent "topics" that are easily recognizable and meaningful to hum ...

Keywords: classification, topic models

16 Exploiting perception in high-fidelity virtual environments: Exploiting perception in high-fidelity virtual environments
Additional presentations from the 24th course are available on the citation page
Mashhuda Glencross, Alan G. Chalmers, Ming C. Lin, Miguel A. Otaduy, Diego Gutierrez
July 2006 **ACM SIGGRAPH 2006 Courses SIGGRAPH '06**
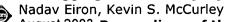**Publisher:** ACM Press
Full text available: pdf(5.07 MB) Additional Information: full citation, appendices and supplements,
mov(68:6 MIN)   abstract, references, cited by, index terms

The objective of this course is to provide an introduction to the issues that must be considered when building high-fidelity 3D engaging shared virtual environments. The principles of human perception guide important development of algorithms and techniques in collaboration, graphical, auditory, and haptic rendering. We aim to show how human perception is exploited to achieve realism in high fidelity environments within the constraints of available finite computational resources.In this course w ...

Keywords: collaborative environments, haptics, high-fidelity rendering, human-computer interaction, multi-user, networked applications, perception, virtual reality

17 Link aggregation: Untangling compound documents on the web
Nadav Eiron, Kevin S. McCurley
August 2003 **Proceedings of the fourteenth ACM conference on Hypertext and hypermedia HYPERTEXT '03**
Publisher: ACM Press
Full text available: pdf(192.59 KB)   Additional Information: full citation, abstract, references, citings, index
terms

Most text analysis is designed to deal with the concept of a "document", namely a cohesive presentation of thought on a unifying subject. By contrast, individual nodes on the World Wide Web tend to have a much smaller granularity than text documents. We claim that the notions of "document" and "web node" are not synonymous, and that authors often tend to deploy documents as collections of URLs, which we call "compound documents". In this paper we present new techniques for identifying and workin ...

Keywords: composites, hypertext, information retrieval, semantic web, wasted space

18 Research track posters: Diagnosing extrapolation: tree-based density estimation

Giles Hooker

August 2004 **Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '04**

Publisher: ACM Press

Full text available: pdf(378.85 KB)   Additional Information: full citation, abstract, references, index terms

There has historically been very little concern with extrapolation in Machine Learning, yet extrapolation can be critical to diagnose. Predictor functions are almost always learned on a set of highly correlated data comprising a very small segment of predictor space. Moreover, flexible predictors, by their very nature, are not controlled at points of extrapolation. This becomes a problem for diagnostic tools that require evaluation on a product distribution. It is also an issue when we are tryin ...

Keywords: C4.5, CART, clustering, density estimation, diagnostics, extrapolation, interpretation, modeling methodologies, trees-based models, visualization

19 Reports from related meetings: Interface '99: a data mining overview

Arnold Goodman

January 2000 **ACM SIGKDD Explorations Newsletter**, Volume 1 Issue 2
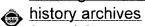
Publisher: ACM Press

Full text available: pdf(851.62 KB)   Additional Information: full citation, abstract, references

This personal overview of Interface '99 is intended to communicate its meaning and relevance to SIGKDD, as well as provide valuable information on trends within the Interface for data miners seeking to learn more about statistics. In addition, it is the newest link in a bridge between the Interface and KDD begun by References 2-4 and the sessions on KDD at Interface '98 and Interface '99.

Keywords: review of Interface'99 conference, statistics

20 Building and using cultural digital libraries: Supporting access to large digital oral history archives

Samuel Gustman, Dagobert Soergel, Douglas Oard, William Byrne, Michael Picheny, Bhuvana Ramabhadran, Douglas Greenberg

July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries JCDL '02**

Publisher: ACM Press

Full text available: pdf(734.60 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes our experience with the creation, indexing, and provision of access to a very large archive of videotaped oral histories - 116,000 hours of digitized interviews in 32 languages from 52,000 survivors, liberators, rescuers, and witnesses of the Nazi Holocaust. It goes on to identify a set of critical research issues that must be addressed if we are to provide full and detailed access to collections of this size: issues in user requirement studies, automatic speech recognition, ...

Keywords: cataloging, oral history, research agenda

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21 iDistance: An adaptive B⁺-tree based indexing method for nearest neighbor search   ▬

H. V. Jagadish, Beng Chin Ooi, Kian-Lee Tan, Cui Yu, Rui Zhang
June 2005 **ACM Transactions on Database Systems (TODS)**, Volume 30 Issue 2
Publisher: ACM Press

Full text available: 📄 pdf(1.16 MB)   Additional Information: full citation, abstract, references, citings, index terms

In this article, we present an efficient $B^{\+}$-tree based indexing method, called iDistance, for K-nearest neighbor (KNN) search in a high-dimensional metric space. iDistance partitions the data based on a space- or data-partitioning strategy, and selects a reference point for each partition. The data points in each partition are transformed into a single dimensional value based on their similarity with respect to the reference point. This allows the points to be indexed using a B
~~Keywords: Indexing, KNN, nearest neighbor queries~~

22 The elements of nature: interactive and realistic techniques   ▬

Oliver Deusen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw Prusinkiewicz, Doug Roble, Jos Stam, Jerry Tessendorf
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: 📄 pdf(17.65 MB)   Additional Information: full citation, abstract

This updated course on simulating natural phenomena will cover the latest research and production techniques for simulating most of the elements of nature. The presenters will provide movie production, interactive simulation, and research perspectives on the difficult task of photorealistic modeling, rendering, and animation of natural phenomena. The course offers a nice balance of the latest interactive graphics hardware-based simulation techniques and the latest physics-based simulation techni ...

23 Learning to Detect and Classify Malicious Executables in the Wild   ▬

J. Zico Kolter, Marcus A. Maloof
December 2006 **The Journal of Machine Learning Research**, Volume 7
Publisher: MIT Press
Full text available: 📄 pdf(242.79 KB)   Additional Information: full citation, abstract

We describe the use of machine learning and data mining to detect and classify malicious executables as they appear in the wild. We gathered 1,971 benign and 1,651 malicious executables and encoded each as a training example using n-grams of byte codes as features. Such processing resulted in more than 255 million distinct n-grams. After selecting the most relevant n-grams for prediction, we evaluated a variety of inductive

methods, including naive Bayes, decision trees, ...

24 A machine transliteration model based on correspondence between graphemes and phonemes

Jong-Hoon Oh, Key-Sun Choi, Hitoshi Isahara
September 2006 **ACM Transactions on Asian Language Information Processing (TALIP)**, Volume 5 Issue 3
Publisher: ACM Press
Full text available: pdf(445.63 KB)   Additional Information: full citation, abstract, references, index terms

Machine transliteration is an automatic method for converting words in one language into phonetically equivalent ones in another language. There has been growing interest in the use of machine transliteration to assist machine translation and information retrieval. Three types of machine transliteration models---grapheme-based, phoneme-based, and hybrid---have been proposed. Surprisingly, there have been few reports of efforts to utilize the correspondence between source graphemes and source pho ...

Keywords: Machine transliteration, grapheme and phoneme, information retrieval, machine translation, natural language processing

25 Data mining: Time-dependent semantic similarity measure of queries using historical click-through data

Qiankun Zhao, Steven C. H. Hoi, Tie-Yan Liu, Sourav S. Bhowmick, Michael R. Lyu, Wei-Ying Ma
May 2006 **Proceedings of the 15th international conference on World Wide Web WWW '06**
Publisher: ACM Press
Full text available: pdf(347.70 KB)   Additional Information: full citation, abstract, references, cited by, index terms

It has become a promising direction to measure similarity of Web search queries by mining the increasing amount of click-through data logged by Web search engines, which record the interactions between users and the search engines. Most existing approaches employ the click-through data for similarity measure of queries with little consideration of the temporal factor, while the click-through data is often dynamic and contains rich temporal information. In this paper we present a new framework of ...

Keywords: click-through data, event detection, evolution pattern, marginalized kernel, semantic similarity measure

26 A hierarchical access control model for video database systems

Elisa Bertino, Jianping Fan, Elena Ferrari, Mohand-Said Hacid, Ahmed K. Elmagarmid, Xingquan Zhu
April 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 2
Publisher: ACM Press
Full text available: pdf(6.27 MB)   Additional Information: full citation, abstract, references, citings, index terms

Content-based video database access control is becoming very important, but it depends on the progresses of the following related research issues: (a) efficient video analysis for supporting semantic visual concept representation; (b) effective video database indexing structure; (c) the development of suitable video database models; and (d) the development of access control models tailored to the characteristics of video data. In this paper, we propose a novel approach to support multilevel acce ...

Keywords: Video database models, access control, indexing schemes

27

Visualizing geospatial data

Theresa Marie Rhyne, Alan MacEachren, Theresa-Marie Rhyne
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: pdf(14.01 MB)   Additional Information: full citation, abstract

This course reviews concepts and highlights new directions in GeoVisualization. We review four levels of integrating geospatial data and geographic information systems (GIS) with scientific and information visualization (VIS) methods. These include:• Rudimentary: minimal data sharing between the GIS and Vis systems• Operational: consistency of geospatial data• Functional: transparent communication between the GIS and Vis systems• Merged: one comprehensive toolkit environmentW ...

28 Research sessions: stream management: Online event-driven subsequence matching over financial data streams
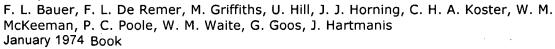
Huanmei Wu, Betty Salzberg, Donghui Zhang
June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data SIGMOD '04**

Publisher: ACM Press

Full text available: pdf(753.59 KB)   Additional Information: full citation, abstract, references, citings

Subsequence similarity matching in time series databases is an important research area for many applications. This paper presents a new approximate approach for automatic online subsequence similarity matching over massive data streams. With a simultaneous on-line segmentation and pruning algorithm over the incoming stream, the resulting piecewise linear representation of the data stream features high sensitivity and accuracy. The similarity definition is based on a permutation followed by a met ...

29 Compiler construction: an advanced course

F. L. Bauer, F. L. De Remer, M. Griffiths, U. Hill, J. J. Horning, C. H. A. Koster, W. M. McKeeman, P. C. Poole, W. M. Waite, G. Goos, J. Hartmanis
January 1974 Book

Publisher: Springer-Verlag New York, Inc.

Additional Information: full citation, abstract, references, cited by

The Advanced Course took place from March 4 to 15, 1974 and was organized by the Mathematical Institute of the Technical University of Munich and the Leibniz Computing Center of the Bavarian Academy of Sciences, in co-operation with the European Communities, sponsored by the Ministry for Research and Technology of the Federal Republic of Germany and by the European Research Office, London.

30 Posters: Content-based image retrieval by clustering

Yixin Chen, James Z. Wang, Robert Krovetz
November 2003 **Proceedings of the 5th ACM SIGMM international workshop on Multimedia information retrieval MIR '03**

Publisher: ACM Press

Full text available: pdf(658.35 KB)   Additional Information: full citation, abstract, references, citings, index terms

In a typical content-based image retrieval (CBIR) system, query results are a set of images sorted by feature similarities with respect to the query. However, images with high feature similarities to the query may be very different from the query in terms of semantics. This is known as the semantic gap. We introduce a novel image retrieval scheme, CLUster-based rEtrieval of images by unsupervised learning (CLUE), which tackles the semantic gap problem based on a hypothesis: *semantically simil* ...

Keywords: *content-based image retrieval, image classification, spectral graph clustering, unsupervised learning*

31 Course 17: Spatial augmented reality: merging real and virtual worlds: Modern
approaches to augmented reality
Video files associated with this course are available from the citation page
Oliver Bimber, Ramesh Raskar
August 2007 **ACM SIGGRAPH 2007 courses SIGGRAPH '07**
Publisher: ACM Press

Full text available: pdf(46.17 MB)   Additional Information: full citation, appendices and supplements, abstract, references, index terms

This tutorial discusses the Spatial Augmented Reality (SAR) concept, its advantages and
limitations. It will present examples of state-of-the-art display configurations, appropriate
real-time rendering techniques, details about hardware and software implementations, and
current areas of application. Specifically, it will describe techniques for optical combination
using single/multiple spatially aligned mirror-beam splitters, image sources, transparent
screens and optical holograms. Furthermo ...

32 Towards a road map on human language technology: natural language processing
Andreas Eisele, Dorothea Ziegler-Eisele
August 2002 **COLING-02 on A roadmap for computational linguistics - Volume 13**
Publisher: Association for Computational Linguistics
Full text available: pdf(270.05 KB)   Additional Information: full citation, abstract, references

This document summarizes contributions and discussions from two workshops that took
place in November 2000 and July 2001. It presents some visions of NLP-related
applications that may become reality within ten years from now. It investigates the
technological requirements that must be met in order to make these visions realistic and
sketches milestones that may help to measure our progress towards these goals.

33 Information retrieval on the web
Mei Kobayashi, Koichi Takeda
June 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 2
Publisher: ACM Press

Full text available: pdf(213.89 KB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper we review studies of the growth of the Internet and technologies that are
useful for information search and retrieval on the Web. We present data on the Internet
from several different sources, e.g., current as well as projected number of users, hosts,
and Web sites. Although numerical figures vary, overall trends cited by the sources are
consistent and point to exponential growth in the past and in the coming decade. Hence it
is not surprising that about 85% of Internet user ...

Keywords: Internet, World Wide Web, clustering, indexing, information retrieval,
knowledge management, search engine

34 Semantic clustering and querying on heterogeneous features for visual data
Gholamhosein Sheikholeslami, Wendy Chang, Aidong Zhang
September 1998 **Proceedings of the sixth ACM international conference on Multimedia
MULTIMEDIA '98**
Publisher: ACM Press
Full text available: pdf(1.37 MB)   Additional Information: full citation, references, citings, index terms

35 Image I: Retrieval of 3D objects by visual similarity
Jürgen Assfalg, Alberto Del Bimbo, Pietro Pala
October 2004 **Proceedings of the 6th ACM SIGMM international workshop on
Multimedia information retrieval MIR '04**

Publisher: ACM Press

Full text available: pdf(166.89 KB)   Additional Information: full citation, abstract, references, citings, index terms

Along with images and videos, 3D models have recently gained increasing attention for a number of reasons: advancements in 3D hardware and software technologies, their ever decreasing prices and increasing availability, affordable 3D authoring tools, and the establishment of open standards for 3D data interchange. The ever increasing availability of 3D models demands for tools supporting their effective and efficient management. Among these tools, those enabling content-based retrieval play a ...

Keywords: 3D models, content-based retrieval, spin images

36 Using dual cascading learning frameworks for image indexing
Joo-Hwee Lim, Jesse S. Jin
June 2004 **Proceedings of the Pan-Sydney area workshop on Visual information processing VIP '05**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(254.67 KB)   Additional Information: full citation, abstract, references, index terms

To bridge the semantic gap in content-based image retrieval, detecting meaningful visual entities (e.g. faces, sky, foliage, buildings etc) in image content and classifying images into semantic categories based on trained pattern classifiers have become active research trends. In this paper, we present dual cascading learning frameworks that extract and combine intra-image and inter-class semantics for image indexing and retrieval.In the supervised learning version, support vector detectors are ...

Keywords: image classification, image indexing, image retrieval, pattern discovery, similarity matching

37 Facial modeling and animation
Jörg Haber, Demetri Terzopoulos
August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
Publisher: ACM Press
Full text available: pdf(18.15 MB)   Additional Information: full citation, abstract

In this course we present an overview of the concepts and current techniques in facial modeling and animation. We introduce this research area by its history and applications. As a necessary prerequisite for facial modeling, data acquisition is discussed in detail. We describe basic concepts of facial animation and present different approaches including parametric models, performance-, physics-, and learning-based methods. State-of-the-art techniques such as muscle-based facial animation, mass-s ...

38 Machine learning in automated text categorization
Fabrizio Sebastiani
March 2002 **ACM Computing Surveys (CSUR),** Volume 34 Issue 1
Publisher: ACM Press
Full text available: pdf(524.41 KB)   Additional Information: full citation, abstract, references, citings, index terms

The automated categorization (or classification) of texts into predefined categories has witnessed a booming interest in the last 10 years, due to the increased availability of documents in digital form and the ensuing need to organize them. In the research community the dominant approach to this problem is based on machine learning techniques: a general inductive process automatically builds a classifier by learning, from a set of preclassified documents, the characteristics of the categories. ...

Keywords: Machine learning, text categorization, text classification

39 Selected writings on computing: a personal perspective

Edsger W. Dijkstra
January 1982 Book
Publisher: Springer-Verlag New York, Inc.
Additional Information: full citation, abstract, references, cited by, index terms

> Since the summer of 1973, when I became a Burroughs Research Fellow, my life has been very different from what it had been before. The daily routine changed: instead of going to the University each day, where I used to spend most of my time in the company of others, I now went there only one day a week and was most of the time that is, when not travelling!-- alone in my study. In my solitude, mail and the written word in general became more and more important. The circumstance that my employe ...

40 Cross-lingual C*ST*RD: English access to Hindi information

Anton Leuski, Chin-Yew Lin, Liang Zhou, Ulrich Germann, Franz Josef Och, Eduard Hovy
September 2003 **ACM Transactions on Asian Language Information Processing (TALIP)**, Volume 2 Issue 3
Publisher: ACM Press
Full text available: pdf(210.61 KB)   Additional Information: full citation, abstract, references, index terms

> We present C*ST*RD, a cross-language information delivery system that supports cross-language information retrieval, information space visualization and navigation, machine translation, and text summarization of single documents and clusters of documents. C*ST*RD was assembled and trained within 1 month, in the context of DARPA's Surprise Language Exercise, that selected as source a heretofore unstudied language, Hindi. Given the brief time, we could not create deep Hindi capabilities for all th ...

> **Keywords**: Cross-language information retrieval, Hindi-to-English machine translation, headline generation, information retrieval and information space navigation, single- and multi-document text summarization

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41 Dissemination of compressed historical information in sensor networks
Antonios Deligiannakis, Yannis Kotidis, Nick Roussopoulos
October 2007 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 16 Issue 4
Publisher: Springer-Verlag New York, Inc.
Additional Information: full citation, abstract

Sensor nodes are small devices that "measure" their environment and communicate feeds of low-level data values to a base station for further processing and archiving. Dissemination of these multi-valued feeds is challenging because of the limited resources (processing, bandwidth, energy) available in the nodes of the network. In this paper, we first describe the SBR algorithm for compressing multi-valued feeds containing historical data from each sensor. The key to our technique is the
Keywords: Compression, Sensor Networks

42 Appearance-based video clustering in 2D locality preserving projection subspace
Li-Qun Xu, Bin Luo
July 2007 **Proceedings of the 6th ACM international conference on Image and video retrieval CIVR '07**
Publisher: ACM Press
Full text available: 📄 pdf(546.53 KB)   Additional Information: full citation, abstract, references, index terms

In this paper we introduce an effective and unified approach to creating quality video abstractions. The research was motivated by a recently developed subspace learning method called 2D-LPP, or two-dimensional Locality Preserving Projection, which proved to be effective for dimensionality reduction and discriminating enough in 'appearance-based' image recognitions. By exploiting temporal constraints (sequential correlations / contextual content) inherent in a video (vs. random collection of ...

Keywords: 2D-PCA, 2D-locality preserving projection, data clustering, home video analysis, video browsing, vido abstraction

43 Temporal event clustering for digital photo collections
Matthew Cooper, Jonathan Foote, Andreas Girgensohn, Lynn Wilcox
August 2005 **ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP)**, Volume 1 Issue 3
Publisher: ACM Press
Full text available: 📄 pdf(5.20 MB)   Additional Information: full citation, abstract, references, citings, index terms

Organizing digital photograph collections according to events such as holiday gatherings or vacations is a common practice among photographers. To support photographers in this task, we present similarity-based methods to cluster digital photos by time and image content. The approach is general and unsupervised, and makes minimal assumptions regarding the structure or statistics of the photo collection. We present several variants of an automatic unsupervised algorithm to partition a collection ...

Keywords: Digital photo organization, digital libraries, temporal media indexing

44 Automatic generation of "hyper-paths" in information retrieval systems: a stochastic and an incremental algorithms
Alain Lelu
September 1991 **Proceedings of the 14th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '91**
Publisher: ACM Press
Full text available: pdf(981.55 KB)   Additional Information: full citation, references, citings, index terms

45 Extracting predicates from mining models for efficient query evaluation
Surajit Chaudhuri, Vivek Narasayya, Sunita Sarawagi
September 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 3
Publisher: ACM Press
Full text available: pdf(698.37 KB)   Additional Information: full citation, abstract, references, index terms

Modern relational database systems are beginning to support ad hoc queries on mining models. In this article, we explore novel techniques for optimizing queries that contain predicates on the results of application of mining models to relational data. For such queries, we use the internal structure of the mining model to automatically derive traditional database predicates. We present algorithms for deriving such predicates for a large class of popular discrete mining models: decision trees, nai ...

Keywords: Complex predicate optimization, simpler rules from complex predictive functions

46 Special issue on ICML: Coupled clustering: a method for detecting structural correspondence
Zvika Marx, Ido Dagan, Joachim M. Buhmann, Eli Shamir
March 2003 **The Journal of Machine Learning Research**, Volume 3
Publisher: MIT Press
Full text available: pdf(967.15 KB)   Additional Information: full citation, abstract, citings, index terms

This paper proposes a new paradigm and a computational framework for revealing equivalencies (analogies) between sub-structures of distinct composite systems that are initially represented by unstructured data sets. For this purpose, we introduce and investigate a variant of traditional data clustering, termed *coupled clustering*, which outputs a configuration of corresponding subsets of two such representative sets. We apply our method to synthetic as well as textual data. Its achievement ...

47 Smalltalk-80: the language and its implementation
Adele Goldberg, David Robson
January 1983 Book
Publisher: Addison-Wesley Longman Publishing Co., Inc.
Full text available: pdf(33.56 MB)   Additional Information: full citation, abstract, cited by, index terms, review

From the Preface (See Front Matter for full Preface)

Advances in the design and production of computer hardware have brought many more

people into direct contact with computers. Similar advances in the design and production of computer software are required in order that this increased contact be as rewarding as possible. The Smalltalk-80 system is a result of a decade of research into creating computer software that is appropriate for producing highly functional and interactive ...

48 Recreational computer graphics: Recreational computer graphics

Andrew Glassner
July 2006 **ACM SIGGRAPH 2006 Courses SIGGRAPH '06**
Publisher: ACM Press
Full text available: pdf(13.82 MB)   Additional Information: full citation, abstract, index terms

Computer graphics isn't just a bunch of algorithms and programs: it's a gymnasium for the visual imagination, and a tool for investigating the world around us. Graphics can help us understand nature, invent new kinds of patterns and shapes, build up the clarity of our own mind's eye, and experiment with construction tools that would inspire even the most classical sculptors and painters. Going beyond tools and technique, this course invites attendees to think about using computer graphics in new ...

49 Research track papers: Using hierarchical clustering for learning theontologies used in recommendation systems

Vincent Schickel-Zuber, Boi Faltings
August 2007 **Proceedings of the 13th ACM SIGKDD international conference on Knowledge discovery and data mining KDD '07**
Publisher: ACM Press
Full text available: pdf(1.01 MB)   Additional Information: full citation, abstract, references, index terms

Ontologies are being successfully used to overcome semanticheterogeneity, and are becoming fundamental elements of the SemanticWeb. Recently, it has also been shown that ontologies can be used tobuild more accurate and more personalized recommendation systems byinferencing missing user's preferences. However, these systemsassume the existence of ontologies, without considering theirconstruction. With product catalogs changing continuously, newtechniques are required in order to build these on ...

Keywords: ontology, performance, recommendation systems

50 Modeling and querying moving objects in networks

Hartmut Güting, Teixeira de Almeida, Zhiming Ding
June 2006 **The VLDB Journal — The International Journal on Very Large Data Bases,**
Volume 15 Issue 2
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(610.40 KB)   Additional Information: full citation, abstract, references

Moving objects databases have become an important research issue in recent years. For modeling and querying moving objects, there exists a comprehensive framework of abstract data types to describe objects moving freely in the 2D plane, providing data types such as *moving point* or *moving region.* However, in many applications people or vehicles move along transportation networks. It makes a lot of sense to model the network explicitly and to describe movements relative to the networ ...

Keywords: ADT, Data type, Moving object, Network, Spatio-temporal

51 Contributed articles: Genetic subtyping using cluster analysis

Tom Burr, James R. Gattiker, Greggory S. LaBerge
July 2001 **ACM SIGKDD Explorations Newsletter,** Volume 3 Issue 1
Publisher: ACM Press
Full text available: pdf(984.40 KB)   Additional Information: full citation, abstract, references

In this paper we (1) describe state-of-the-art methods to identify clusters in DNA sequence data for taxonomic analysis; (2) describe a new method with better scaling

properties based on model-based clustering, and (3) present examples using the nucleoprotein and hemagglutin regions of influenza and the *env* and *gag* regions of human immunodeficiency virus (HIV).

Keywords: DNA sequence analysis, HIV, influenza, model-based clustering, phylogenetic trees

52   A semi-supervised document clustering technique for information organization

Han-Joon Kim, Sang-Goo Lee
November 2000 **Proceedings of the ninth international conference on Information and knowledge management CIKM '00**
Publisher: ACM Press
Full text available: pdf(261.40 KB)   Additional Information: full citation, references, citings, index terms

Keywords: agglomerative hierarchical clustering, document clustering, fuzzy information retrieval, information organization, relevance feedback

53   Discovering personally meaningful places: An interactive clustering approach

Changqing Zhou, Dan Frankowski, Pamela Ludford, Shashi Shekhar, Loren Terveen
July 2007 **ACM Transactions on Information Systems (TOIS)**, Volume 25 Issue 3
Publisher: ACM Press
Full text available: pdf(817.87 KB)   Additional Information: full citation, abstract, references, index terms

The discovery of a person's meaningful places involves obtaining the physical locations and their labels for a person's places that matter to his daily life and routines. This problem is driven by the requirements from emerging location-aware applications, which allow a user to pose queries and obtain information in reference to places, for example, "home", "work" or "Northwest Health Club". It is a challenge to map from physical locations to personally mea ...

Keywords: Ubiquitous computing, clustering algorithms, field studies, location-aware applications, place discovery

54   Papers: Hierarchical land cover information retrieval in object-oriented remote sensing image databases with native queries

Jiang Li
March 2007 **Proceedings of the 45th annual southeast regional conference ACM-SE 45**
Publisher: ACM Press
Full text available: pdf(958.87 KB)   Additional Information: full citation, abstract, references, index terms

Classification and change detection of land cover types in the remotely sensed images is one of the major applications in remote sensing. This paper presents a hierarchical framework for land cover information storage and retrieval from object-oriented (OO) remote sensing image databases. Multi-spectral (band) remotely sensed images are classified by an optimized *k*-means clustering algorithm. The land cover maps are then decomposed and indexed with region quad-tree data structure store ...

Keywords: change detection, clustering, information retrieval, object-oriented databases, remote sensing

55   Mindstorms: children, computers, and powerful ideas

Seymour Papert
January 1980 Book

Publisher: Basic Books, Inc.
Full text available: pdf(12.45 MB)   Additional Information: full citation, abstract, cited by, index terms

The Gears of My Childhood

Before I was two years old I had developed an intense involvement with automobiles. The names of car parts made up a very substantial portion of my vocabulary: I was particularly proud of knowing about the parts of the transmission system, the gearbox, and most especially the differential. It was, of course, many years later before I understood how gears work; but once I did, playing with gears became a favorite pastime. I loved rotating circular object ...

56 Cumulating and sharing end users knowledge to improve video indexing in a video digital library
Marc Nanard, Jocelyne Nanard
January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries JCDL '01**
Publisher: ACM Press

Full text available: pdf(250.01 KB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper, we focus on a user driven approach to improve video ind exing. It consists in cumulating the large amount of small, individual efforts done by the users who access information, and to provide a community management mechanism to let users share the elicited knowledge. This technique is currently being developed in the "OPALES" environment and tuned up at the "Institut National de l'Audiovisuel&r dquo;(INA), a National Video Library in Paris, to increase the v ...

Keywords: knowledge sharing, private workspaces, users communities, video annotation, video indexing

57 Document detection: TIPSTER phase I final report
Bill Caid, Stephen Gallant, Joel Carleton, David Sudbeck
September 1993 **Proceedings of a workshop on held at Fredericksburg, Virginia: September 19-23, 1993**
Publisher: Association for Computational Linguistics
Full text available: pdf(1.84 MB)   Additional Information: full citation, abstract

During Phase I of the TIPSTER program, HNC developed a unique approach to machine learning of similarity of meaning. This approach, embodied in a system called "MatchPlus", exploits this learned similarity of meaning for concept-based text retrieval, routing and visualization of textual information. MatchPlus uses an information representation scheme called "context vectors" to encode similarity of usage. Key attributes of the context vector approach are as follows:• Words, documents, and q ...

58 An architecture to support scalable online personalization on the Web
Anindya Datta, Kaushik Dutta, Debra VanderMeer, Krithi Ramamritham, Shamkant B. Navathe
August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 1
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(167.25 KB)   Additional Information: full citation, abstract, citings, index terms

Online personalization is of great interest to e-companies. Virtually all personalization technologies are based on the idea of storing as much historical customer session data as possible, and then querying the data store as customers navigate through a web site. The holy grail of online personalization is an environment where fine-grained, detailed historical session data can be queried based on current online navigation patterns for use in formulating real-time responses. Unfortunately, as mo ...

Keywords: Behavior-based personalization, Dynamic lookahead profile, Profile caching, Scalable online personalization, Web site and interaction model

59 Deja Vu: a knowledge-rich interface for retrieval in digital libraries

Andrew S. Gordon, Eric A. Domeshek

January 1998 **Proceedings of the 3rd international conference on Intelligent user interfaces IUI '98**

Publisher: ACM Press

Full text available: pdf(1.04 MB)   Additional Information: full citation, references, citings, index terms

Keywords: digital libraries, retrieval interfaces, thesaurus browsing

60 Natural language processing: Sentence completion

Korinna Grabski, Tobias Scheffer

July 2004 **Proceedings of the 27th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '04**

Publisher: ACM Press

Full text available: pdf(181.97 KB)   Additional Information: full citation, abstract, references, citings, index terms

We discuss a retrieval model in which the task is to complete a sentence, given an initial fragment, and given an application specific document collection. This model is motivated by administrative and call center environments, in which users have to write documents with a certain repetitiveness. We formulate the problem setting and discuss appropriate performance metrics. We present an index-based retrieval algorithm and a cluster-based approach, and evaluate our algorithms using collections of ...

Keywords: applications, indexing methods, retrieval models

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